Author Index

Adele, M.F.: *See* Herlant, M., 140
Agnidis, Z.: *See* Kramer, J., 76
Amundsen, L.R.: *See* Graves, J.M., 166
Andrews, J.R.: *See* Wilk, K.E., 82
Arrigo, C.A.: *See* Wilk, K.E., 82

Bahamonde, R.: *See* DeCarlo, M., 24
Ball, T.E.: *See* Lustig, S.A., 154
Beisiegel, W.P.: *See* Kulling, F.A., 160
Bennett, G.: *See* Carlson, A.J., 60
Bibre, Ph.: *See* Herlant, M., 140
Binkhorst, R.A.: *See* Stam, H.J., 73
Bohannon, R.W. and Wikholm, J.B.:
Measurements of Knee Extension Force Obtained by Two Examiners of Substantially Different Experience with a Hand-Held Dynamometer, 5; *See also* Hills, M., 129
Bourne, R.: *See* Kramer, J., 76
Brown, L.E., Whitehurst, M., Bryant, J.R.:
A Comparison of the LIDO Sliding Cuff and the Tibial Control System in Isokinetic Strength Parameters, 101
Reliability of the LIDO Active Isokinetic Dynamometer Concentric Mode, 191
Bryant, J.R.: *See* Brown, L.E., 101; Brown, L.E., 191
Burns, R.: *See* Timm, K.E., 182

Capuano-Pucci, D., Clifford, J.A., Gillan, M.D., Pleva, D.J. and Seiler, J.S.:
Elbow Flexion and Extension Force During Testing in Different Positions, 124
Carlson, A.J., Bennett, G., and Metcalf, J.:
The Effect of Visual Feedback in Isokinetic Testing, 60
Clancy, W.G.: *See* Wilk, K.E., 82
Clifford, J.A.: *See* Capuano-Pucci, D., 124
Conway, A., Malone, T.R., and Conway, P.:
Patellar Alignment/Tracking Alteration: Effect of Force Output and Perceived Pain, 9
Conway, P.: *See* Conway, A., 9

Davies, G.J., Malone, T.R., Timm, K.E.:
Editorial Comment, 46
DeCarlo, M., Porter, D.A., Gehlsen, G., and Bahamonde, R.:
Electromyographic and Cinematographic Analysis of the Lower Extremity During Closed and Open Kinetic Chain Exercise, 24
Delahaye, H.: *See* Herlant, M., 140
Derscheid, G.: *See* France, E.P., 133
Dworkin, K.J.: *See* Fiebert, I.M., 47

Edwards, S.W.: *See* Kulling, F.A., 160
Ellenbecker, T.S.:
Shoulder Internal and External Rotation Strength and Range of Motion of Highly Skilled Junior Tennis Players, 65
Ellingham, C.T.: *See* Graves, J.M., 166
Erber, D.: *See* Wilk, K.E., 82

Fees, M.A., Whitesel, D., and Fees, S.:
Implementation of the Kinetic Communicator's Isometric, Isokinetic, and Isotonic Protocols for Successful Rehabilitation of Extensor Mechanism Dysfunction, 34
Fees, S.: *See* Fees, M.A., 34
Fiebert, I.M., Hardy, C.J., and Werner, K.L.:
Electromyographic Analysis of the Quadriceps Femoris During Isokinetic Eccentric Activation, 18
Fiebert, I.M., Haas, J.M., Dworkin, K.J., and LeBlanc, W.G.:
A Comparison of Medial Versus Lateral Hamstring Electromyographic Activity and Force Output During Isometric Contractions, 47
Fiebert, I.M., LeBlanc, W.G., McGuane, S.A., Schnoes, C.D. and Strickland, K.M.:
The Relationship of Electromyographic Activity and Force of the Vastus Medialis Oblique and Vastus Lateralis Muscles During Maximal Isometric Knee Extension Contractions, 116
Fleshman, S.A. and Keppler, M.V.:
A Biomechanical Comparison Study of the Adapted Orthotron KT-II, with Stress Indicators, to the Cybex II for the Purpose of Isokinetic Testing of the Knee, 195
France, E.P., Derscheid, G., Irragang, J., Malone, T.R., Petersen, R., Tippett, S., and Wilk, K.:
Preliminary Clinical Evaluation of the Breg K.A.T.: Effects of Training in Normals, 133
Fyke, D.: *See* Timm, K.E., 182

Geborek, P.:
Juxtaarticular Muscle Function in Relation to Joint Distention, 148
Gehlsen, G.: *See* DeCarlo, M., 24
Gennrich, P.: *See* Timm, K.E., 182
Gillan, M.D.: *See* Capuano-Pucci, D., 124
Graves, J.M., Ragnarsdottir, M., Ellingham, C.T., Amundsen, L.R.:
Relationship Between Habitual Physical Activity and Isometric Peak Torque of Knee Extensors and Plantar Flexors of Older Men and Women, 166

Haas, J.M.: *See* Fiebert, I.M., 47
Hardy, C.J.: *See* Fiebert, I.M., 18
Hellwig, E.V.: *See* Perrin, D.H., 30
Herlant, M., Delahaye, H., Voisin, Ph., Bibre, Ph. and Adele, M.F.:
The Effect of Anterior Cruciate Ligament Surgery on the Ankle Plantar Flexors, 140
Hills, M., Bohannon, R.W.:
Shoulder Extension Strength is Influenced by Elbow Position, 129
Hinger, D.: *See* Wilk, K.E., 82
Horvat, M., McManis, B.G. and Seagraves, F.E.:
Reliability and Objectivity of the Nicholas Manual Muscle Tester with Children, 175
Housh, T.J.: *See* Wagner, L.L., 110

Irragang, J.: *See* France, E.P., 133

Jacobson, B.H.: *See* Kulling, F.A., 160
Johnson, G.O.: *See* Wagner, L.L., 110

Keppler, M.V.: *See* Fleshman, S.A., 195
Kramer, J., Agnidis, Z., Bourne, R., and Rorabeck, C.:
Reliability of Knee Extensor and Flexor Strength Measurements After Total Knee Replacement, 76
Kulling, F.A., Beisiegel, W.P., Jacobson, B.H., Edwards, S.W.:
A Comparison of Dynamic Muscular Endurance Among Inactive Men and Women: A Cross Sectional Study, 160

Latin, R.W.:
The Relationship Between Isokinetic Power and Selected Anaerobic Power Tests, 56
LeBlanc, W.G.: *See* Fiebert, I.M., 116; Fiebert, I.M., 47
Lemak, L.: *See* Wilk, K.E., 82
Looney, M.: *See* Lustig, S.A., 154
Lustig, S.A., Ball, T.E., Looney, M.:
A Comparison of Two PNF Techniques for Improving Range of Motion and Muscular Strength, 154

Author Index

Adele, M.F.: *See* Herlant, M., 140
Agnidis, Z.: *See* Kramer, J., 76
Amundsen, L.R.: *See* Graves, J.M., 166
Andrews, J.R.: *See* Wilk, K.E., 82
Arrigo, C.A.: *See* Wilk, K.E., 82

Bahamonde, R.: *See* DeCarlo, M., 24
Ball, T.E.: *See* Lustig, S.A., 154
Beisiegel, W.P.: *See* Kulling, F.A., 160
Bennett, G.: *See* Carlson, A.J., 60
Bibre, Ph.: *See* Herlant, M., 140
Binkhorst, R.A.: *See* Stam, H.J., 73
Bohannon, R.W. and Wikholm, J.B.:
Measurements of Knee Extension Force Obtained by Two Examiners of Substantially Different Experience with a Hand-Held Dynamometer, 5; *See also* Hills, M., 129
Bourne, R.: *See* Kramer, J., 76
Brown, L.E., Whitehurst, M., Bryant, J.R.:
A Comparison of the LIDO Sliding Cuff and the Tibial Control System in Isokinetic Strength Parameters, 101
Reliability of the LIDO Active Isokinetic Dynamometer Concentric Mode, 191
Bryant, J.R.: *See* Brown, L.E., 101; Brown, L.E., 191
Burns, R.: *See* Timm, K.E., 182

Capuano-Pucci, D., Clifford, J.A., Gillan, M.D., Pleva, D.J. and Seiler, J.S.:
Elbow Flexion and Extension Force During Testing in Different Positions, 124
Carlson, A.J., Bennett, G., and Metcalf, J.:
The Effect of Visual Feedback in Isokinetic Testing, 60
Clancy, W.G.: *See* Wilk, K.E., 82
Clifford, J.A.: *See* Capuano-Pucci, D., 124
Conway, A., Malone, T.R., and Conway, P.:
Patellar Alignment/Tracking Alteration: Effect of Force Output and Perceived Pain, 9
Conway, P.: *See* Conway, A., 9

Davies, G.J., Malone, T.R., Timm, K.E.:
Editorial Comment, 46
DeCarlo, M., Porter, D.A., Gehlsen, G., and Bahamonde, R.:
Electromyographic and Cinematographic Analysis of the Lower Extremity During Closed and Open Kinetic Chain Exercise, 24
Delahaye, H.: *See* Herlant, M., 140
Derscheid, G.: *See* France, E.P., 133
Dworkin, K.J.: *See* Fiebert, I.M., 47

Edwards, S.W.: *See* Kulling, F.A., 160
Ellenbecker, T.S.:
Shoulder Internal and External Rotation Strength and Range of Motion of Highly Skilled Junior Tennis Players, 65
Ellingham, C.T.: *See* Graves, J.M., 166
Erber, D.: *See* Wilk, K.E., 82

Fees, M.A., Whitesel, D., and Fees, S.:
Implementation of the Kinetic Communicator's Isometric, Isokinetic, and Isotonic Protocols for Successful Rehabilitation of Extensor Mechanism Dysfunction, 34
Fees, S.: *See* Fees, M.A., 34
Fiebert, I.M., Hardy, C.J., and Werner, K.L.:
Electromyographic Analysis of the Quadriceps Femoris During Isokinetic Eccentric Activation, 18
Fiebert, I.M., Haas, J.M., Dworkin, K.J., and LeBlanc, W.G.:
A Comparison of Medial Versus Lateral Hamstring Electromyographic Activity and Force Output During Isometric Contractions, 47
Fiebert, I.M., LeBlanc, W.G., McGuane, S.A., Schnoes, C.D. and Strickland, K.M.:
The Relationship of Electromyographic Activity and Force of the Vastus Medialis Oblique and Vastus Lateralis Muscles During Maximal Isometric Knee Extension Contractions, 116
Fleshman, S.A. and Keppler, M.V.:
A Biomechanical Comparison Study of the Adapted Orthotron KT-II, with Stress Indicators, to the Cybex II for the Purpose of Isokinetic Testing of the Knee, 195
France, E.P., Derscheid, G., Irragang, J., Malone, T.R., Petersen, R., Tippett, S., and Wilk, K.:
Preliminary Clinical Evaluation of the Breg K.A.T.: Effects of Training in Normals, 133
Fyke, D.: *See* Timm, K.E., 182

Geborek, P.:
Juxtaarticular Muscle Function in Relation to Joint Distention, 148
Gehlsen, G.: *See* DeCarlo, M., 24
Gennrich, P.: *See* Timm, K.E., 182
Gillan, M.D.: *See* Capuano-Pucci, D., 124
Graves, J.M., Ragnarsdottir, M., Ellingham, C.T., Amundsen, L.R.:
Relationship Between Habitual Physical Activity and Isometric Peak Torque of Knee Extensors and Plantar Flexors of Older Men and Women, 166

Haas, J.M.: *See* Fiebert, I.M., 47
Hardy, C.J.: *See* Fiebert, I.M., 18
Hellwig, E.V.: *See* Perrin, D.H., 30
Herlant, M., Delahaye, H., Voisin, Ph., Bibre, Ph. and Adele, M.F.:
The Effect of Anterior Cruciate Ligament Surgery on the Ankle Plantar Flexors, 140
Hills, M., Bohannon, R.W.:
Shoulder Extension Strength is Influenced by Elbow Position, 129
Hinger, D.: *See* Wilk, K.E., 82
Horvat, M., McManis, B.G. and Seagraves, F.E.:
Reliability and Objectivity of the Nicholas Manual Muscle Tester with Children, 175
Housh, T.J.: *See* Wagner, L.L., 110

Irragang, J.: *See* France, E.P., 133

Jacobson, B.H.: *See* Kulling, F.A., 160
Johnson, G.O.: *See* Wagner, L.L., 110

Keppler, M.V.: *See* Fleshman, S.A., 195
Kramer, J., Agnidis, Z., Bourne, R., and Rorabeck, C.:
Reliability of Knee Extensor and Flexor Strength Measurements After Total Knee Replacement, 76
Kulling, F.A., Beisiegel, W.P., Jacobson, B.H., Edwards, S.W.:
A Comparison of Dynamic Muscular Endurance Among Inactive Men and Women: A Cross Sectional Study, 160

Latin, R.W.:
The Relationship Between Isokinetic Power and Selected Anaerobic Power Tests, 56
LeBlanc, W.G.: *See* Fiebert, I.M., 116; Fiebert, I.M., 47
Lemak, L.: *See* Wilk, K.E., 82
Looney, M.: *See* Lustig, S.A., 154
Lustig, S.A., Ball, T.E., Looney, M.:
A Comparison of Two PNF Techniques for Improving Range of Motion and Muscular Strength, 154

McGuane, S.A.: *See* Fiebert, I.M., 116
McManis, B.G.: *See* Horvat, M., 175
Malone, T.R.: *See* Conway, A., 9; Davies, G.J., 46; France, E.P., 133
Metcalf, J.: *See* Carlson, A.J., 60

Patterson, L.: Letter to the Editor, 38
Perrin, D.H., Hellwig, E.V., Tis, L.L., and Shenk, B.S.:
Effect of Gravity Correction on Shoulder Rotation Isokinetic Average Force and Reciprocal Muscle Group Ratios, 30
Petersen, R.: *See* France, E.P., 133
Pleva, D.J.: *See* Capuano-Pucci, D., 124
Porter, D.A.: *See* DeCarlo, M., 24

Ragnarsdottir, M.: *See* Graves, J.M., 166
Rorabeck, C.: *See* Kramer, J., 76

Schnoes, C.D.: *See* Fiebert, I.M., 116
Seagraves, F.E.: *See* Horvat, M., 175
Seiler, J.S.: *See* Capuano-Pucci, D., 124
Shenk, B.S.: *See* Perrin, D.H., 30
Stam, H.J. and Binkhorst, R.A.:
The Correlation of Isometric and Isokinetic Torque Measurements of the Knee Extensors, 73
Strickland, K.M.: *See* Fiebert, I.M., 116

Timm, K.E., Gennrich, P., Burns, R. and Fyke, D.:
The Mechanical and Physiological Performance Reliability of Selected Isokinetic Dynamometers, 182; *See also* Davies, G.J., 46
Tippett, S.: *See* France, E.P., 133
Tis, L.L.: Reply, 38; *See also* Perrin, D.H., 30

Voisin, Ph.: *See* Herlant, M., 140

Wagner, L.L., Housh, T.J., Weir, J.P., Johnson, G.O.:
Gender Differences in the Isokinetic Torque-Velocity Relationship, 110
Weir, J.P.: *See* Wagner, L.L., 110
Werner, K.L.: *See* Fiebert, I.M., 18
Whitehurst, M.: *See* Brown, L.E., 101; Brown, L.E., 191
Whitesel, D.: *See* Fees, M.A., 34
Wikholm, J.B.: *See* Bohannon, R.W., 5
Wilk, K.E., Arrigo, C.A., Andrews, J.R., Clancy, W.G., Lemak, L., Erber, D., and Hinger, D.:
Anterior Cruciate Ligament Reconstruction Rehabilitation: A 12-Week Follow-Up of Isokinetic Testing in Recreational Athletes, 82; *See also* France, E.P., 133

■ Subject Index

ACL surgery, 140
Activity level, 166
Aggressive rehabilitation, 82
Anaerobic power, 56
Ankle plantar flexors, 140, 166
Anterior cruciate ligament reconstruction, 82
Arm dominance, 65
Articular effusion, 148
Average peak torque, 60

Balance ability, 133
Brace and McConnell taping, 9

Children, 175
Cinematography, 24
Closed/open chain, 24
Comparison to Cybex II, 195
Concentric and eccentric average force, 30
Concentric mode, 191
Concentric/eccentric peak, 60
Constant joint angle, 110
Correlations, 56
Criterion-based protocol, 82
Cross Sectional Study, 160

Dynamic Muscular Endurance, 160
Dynamometer, 124, 182

Eccentric activation, 18
Eccentric and concentric assessments, 9
Elbow position, 129
Electromyographic/force relationships, 116
Electromyography, 24, 47
EMG, 18
Extensor/flexor strength, 76
Extensor mechanism dysfunction, 34
External/internal rotation ratio, 30

Functional progression, 34
Functional proprioception, 133

Gender differences, 110
Geriatric population, 166
Gravity correction, 30
Gravity-eliminated body positions, 124

Hand dynamometer, 129
Hand-held dynamometer, 5
Hip Extensors, 154
Hip Range of Motion and Muscular Strength, 154

Internal/external rotation strength, 65
Isokinetic assessment, 82, 101
Isokinetic power, 56
Isometric contractions, 47, 116
Isometric/isokinetic torque correlation, 73
Isotonic mode/Kin Com, 34

K.A.T. system, 133
Knee extension, 5
Knee extensors, 166

LIDO active, 191
LIDO sliding cuff, 101

Mechanical/physiological assessments, 182
Medial/lateral hamstrings, 47
Muscle force, 124
Muscle strength, 175
Muscular function, 148

Neural inhibition, 148

Objectivity, 175
Orthotron KT II, 195

Patellar alignment, 9
Peak torque, 110
Physiologic pattern, 24
Proprioceptive neuromuscular facilitation techniques, 154

Quadriceps femoris, 73
Quadriceps force production, 60

Reliability, 76, 175, 182, 191

Shoulder extension, 129
Skilled junior tennis players, 65
Software analysis, 195

Tester experience, 5
Tibial control system, 101
Torque comparisons, 140
Total knee replacement, 76

Vastus medialis/lateralis, 116
Vastus medialis obliquus, 18
Visual feedback, 60

YMCA Bench Press Test, 160